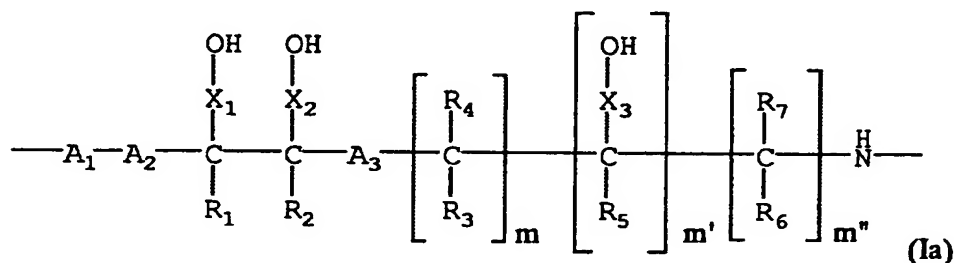


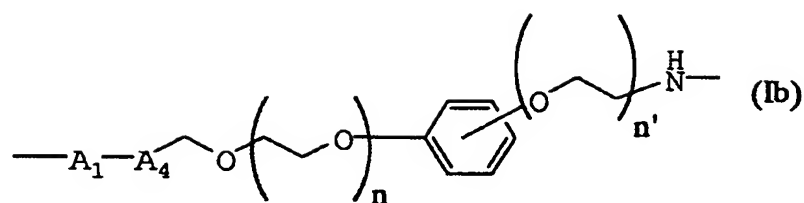
## Claims

1. A resin obtained by polymerizing a starting material monomer, wherein the monomer incorporates a hydrophilic spacer.
2. The resin of claim 1, wherein the monomer is a (meth)acrylic monomer.
3. The resin of claim 1 or 2, wherein the hydrophilic spacer has at least one partial structure represented by any one formula selected from the group consisting of the following formulas (Ia) to (Ie).



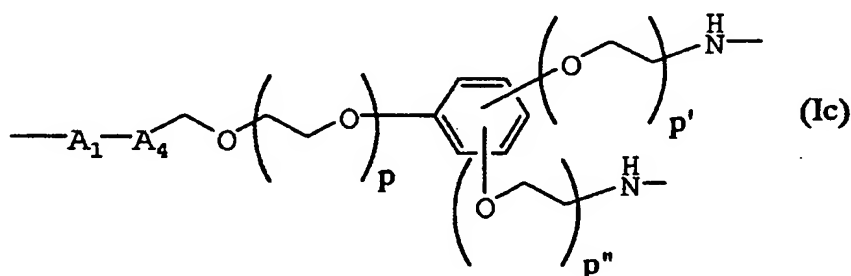
wherein (Ia),

- A<sub>1</sub> is -O- or -NH-, A<sub>2</sub> is a single bond or a lower alkylene group, A<sub>3</sub> is an appropriate joining group,
- each of X<sub>1</sub> to X<sub>3</sub>, whether identical or not, is a single bond or a methylene group optionally substituted by a linear or branched alkyl group having 1 to 3 carbon atoms,
- each of R<sub>1</sub> to R<sub>7</sub>, whether identical or not, is a hydrogen atom, a linear or branched alkyl group having 1 to 3 carbon atoms, -CH<sub>2</sub>OH or a hydroxyl group,
- m is an integer of 0 to 2, m' is an integer of 0 to 10, m'' is an integer of 0 to 2,
- when a plurality of R<sub>3</sub> to R<sub>7</sub> units exist, they may be identical or not, and when a plurality of X<sub>3</sub> units exist, they may be identical or not;



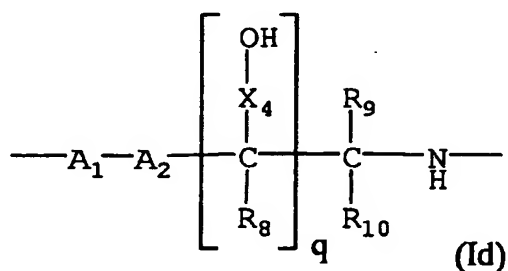
wherein (Ib),

A<sub>1</sub> is -O- or -NH-, A<sub>4</sub> is a lower alkylene group,  
each of n and n', whether identical or not, is an integer of 1  
5 to 10;



wherein (Ic),

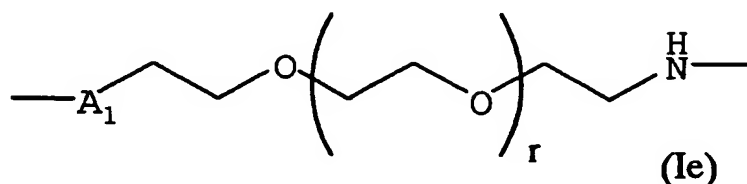
A<sub>1</sub> is -O- or -NH-, A<sub>4</sub> is a lower alkylene group,  
each of p, p' and p'', whether identical or not, is an integer  
10 of 1 to 10;



wherein (Id),

A<sub>1</sub> is -O- or -NH-, A<sub>2</sub> is a single bond or a lower alkylene  
group,  
15 X<sub>4</sub> is a single bond or a methylene group optionally substituted  
by a linear or branched alkyl group having 1 to 3 carbon atoms,  
each of R<sub>8</sub> to R<sub>10</sub>, whether identical or not, is a hydrogen atom,  
a linear or branched alkyl group having 1 to 3 carbon atoms,  
-CH<sub>2</sub>OH or a hydroxyl group,  
20 q is an integer of 1 to 7,

when a plurality of  $R_8$  units exist, they may be identical or not, and when a plurality of  $X_4$  units exist, they may be identical or not;

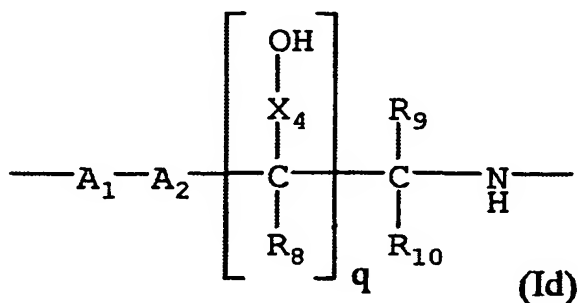


5 wherein (Ie),

$A_1$  is  $\text{---O---}$  or  $\text{---NH---}$ ,

$r$  is an integer of 1 to 10.

4. The resin of claim 3, wherein the hydrophilic spacer has at  
10 least one partial structure represented by the following formula (Id).



wherein (Id),

$A_1$  is  $\text{---O---}$  or  $\text{---NH---}$ ,  $A_2$  is a single bond or a lower alkylene

15 group,

$X_4$  is a single bond or a methylene group optionally substituted by a linear or branched alkyl group having 1 to 3 carbon atoms, each of  $R_8$  to  $R_{10}$ , whether identical or not, is a hydrogen atom, a linear or branched alkyl group having 1 to 3 carbon atoms,

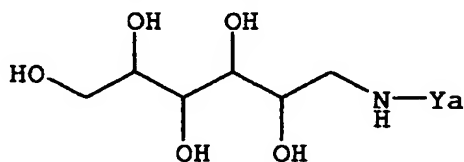
20  $\text{---CH}_2\text{OH}$  or a hydroxyl group,

$q$  is an integer of 1 to 7,

when a plurality of  $R_8$  units exist, they may be identical or not, and when a plurality of  $X_4$  units exist, they may be identical or not.

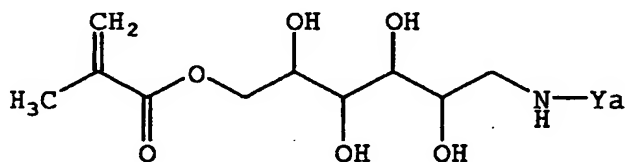
5. The resin of claim 4, wherein in the formula (Id), A<sub>1</sub> is -O-, A<sub>2</sub> is a methylene group, X<sub>4</sub> is a single bond, q is 4, the plurality of R<sub>8</sub> units are identically hydrogen atoms, and R<sub>9</sub> and R<sub>10</sub> are hydrogen atoms.

6. The resin of claim 1, wherein the hydrophilic spacer is a compound represented by the formula shown below.



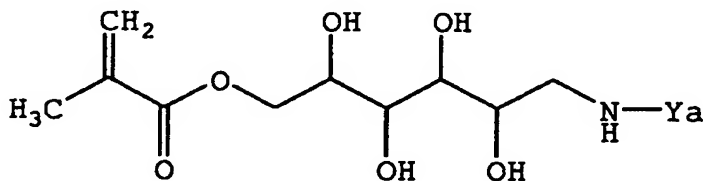
10 wherein Ya is a hydrogen atom or an amino-group-protecting group.

7. The resin of claim 5, which comprises a copolymer of a compound represented by the formula shown below.



15 wherein Ya is a hydrogen atom or an amino-group-protecting group.

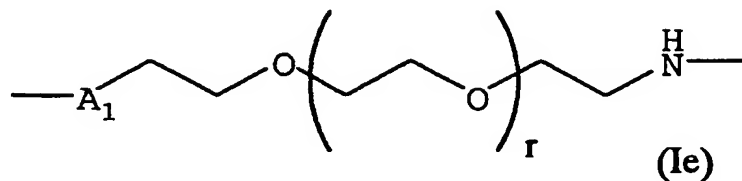
8. A compound represented by the formula shown below.



20 wherein Ya is a hydrogen atom or an amino-group-protecting group.

9. The resin of claim 3, wherein the hydrophilic spacer has at

least one partial structure represented by the following formula (Ie).



wherein (Ie),

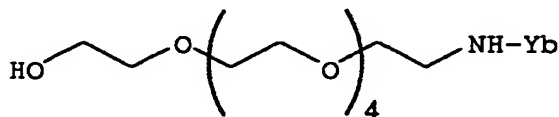
5 A<sub>1</sub> is -O- or -NH-,

r is an integer of 1 to 10.

10. The resin of claim 9, wherein in the formula (Ie), A<sub>1</sub> is -O-.

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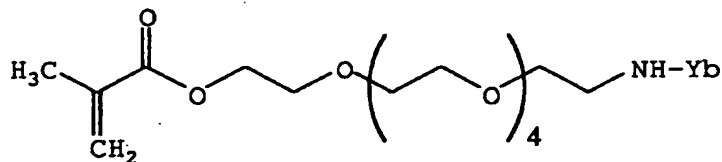
11. The resin of claim 1, wherein the hydrophilic spacer is a compound represented by the formula shown below.



wherein Yb is a hydrogen atom or an amino-group-protecting

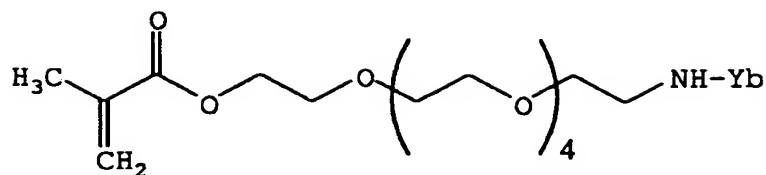
15 group.

12. The resin of claim 10, which comprises a copolymer of a compound represented by the formula shown below.



20 wherein Yb is a hydrogen atom or an amino-group-protecting group.

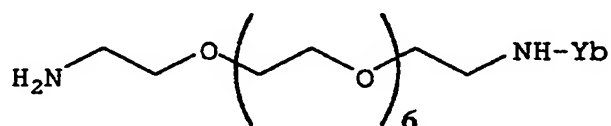
13. A compound represented by the formula shown below.



wherein Yb is a hydrogen atom or an amino-group-protecting group.

5 14. The resin of claim 9, wherein in the formula (Ie), A<sub>1</sub> is -NH-.

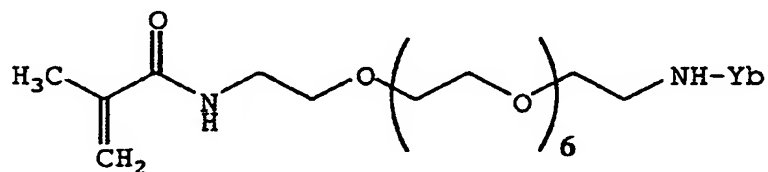
15. The resin of claim 1, wherein the hydrophilic spacer is a compound represented by the formula shown below.



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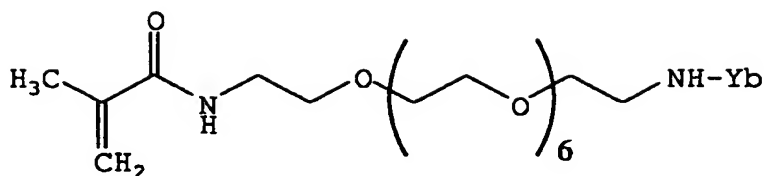
wherein Yb is a hydrogen atom or an amino-group-protecting group.

16. The resin of claim 14, which comprises a copolymer of a  
15 compound represented by the formula shown below.



wherein Yb is a hydrogen atom or an amino-group-protecting group.

20 17. A compound represented by the formula shown below.



wherein Yb is a hydrogen atom or an amino-group-protecting group.

5 18. A solid phase carrier for affinity chromatography comprising a ligand immobilized on the resin of any one of claims 1 to 7, 9 to 12 and 14 to 16.

19. The solid phase carrier of claim 18, which is for  
10 searching a target molecule for the ligand.

20. A screening method for a target molecule that exhibits a specific interaction with a ligand, which comprises at least the following steps:

15 (i) a step for immobilizing a ligand to the resin of any one of claims 1 to 7, 9 to 12 and 14 to 16,

(ii) a step for bringing a sample comprising or not comprising a target molecule into contact with the ligand-immobilized resin obtained in (i) above,

20 (iii) a step for identifying and analyzing a molecule that has exhibited or has not exhibited a specific interaction with the ligand, and

(iv) a step for judging a molecule that exhibits a specific interaction with the ligand to be a target molecule on the

25 basis of the analytical results obtained in (iii) above.

21. A method of measuring a target molecule that exhibits a specific interaction with a ligand in a sample, which comprises at least the following steps:

30 (i) a step for immobilizing a ligand to the resin of any one

of claims 1 to 7, 9 to 12 and 14 to 16,

(ii) a step for bringing a sample into contact with the ligand-immobilized resin obtained in (i) above,

(iii) a step for measuring and analyzing a molecule that has  
5 exhibited or has not exhibited a specific interaction with the ligand, and

(iv) a step for measuring a target molecule that exhibits a specific interaction with the ligand on the basis of the analytical results obtained in (iii) above.

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